

SECTION VI.—BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Chile. Instituto central meteorológico y geofísico.

Anuario meteorológico de Chile. Segunda parte (Resúmenes) 1915. Santiago de Chile. 1917. p.1, 128 p. 21, incl. tables, 36 $\frac{1}{2}$ cm. [Publication] no. 22.

Dessoliers, Hippolyte.

System of producing heat-rains by means of sheets of water of slight depth. 3 p. 29cm. (U. S. Patent office. Specification of letters patent. 1,252,670. Application filed June 20, 1914. No drawing. Serial no. 846,410. Patented Jan. 8, 1918.)

Lourenço Marques. Observatório Campos Rodrigues.

Relatório. Ano de 1916. Volume 8. Lourenço Marques. 1917. 181 p. incl. tables, 38 $\frac{1}{2}$ cm. At head of title: Província de Moçambique. Serviços de marinha.

Nunn, Roscoe.

Climate of Tennessee. 15 tables. 6 charts. 23cm. (Excerpted from Resources of Tennessee, published by the State geological survey, Nashville, Tenn. v. 8. Jan. 1918. p. 7-45.)

Schmid, Friedr[ich].

Das Zodiakallicht, ein Glied der meteorologischen Optik. 15 p. 23cm. (Separatabdruck aus den Verhandlungen der Schweizerischen naturforschenden Gesellschaft. 99 Jahressammlung. Zürich, 1917. 2 Teil. Vorträge.)

Seeley, Dewey Alsdorf.

Relation between temperature and crops. plate. 17 tables. 2 charts. 23cm. (Reprinted from 19th report. Michigan academy of science. 1917. p. [167]-196.) [Literature cited, p. 194-195.]

Slipher, V[esto] M[elvin].

The spectrum of lightning. [Flagstaff, Ariz. Sept. 1917.] 32cm. (Lowell observatory. Bulletin no. 79. p. 55-58.)

Stok, [Johannes] P[aulus] van der.

Bijdrage tot de kennis van het klimaat van Nederland. [Parts 1-5.] [De Bilt] 1916-1917. plate. tables. charts. 25cm. (Overgedrukt uit det "Tijdschrift van het K. Nederlandsch aardrijkskundig genootschap," 2^o Ser. dl. 33, 1916, Afl. 1, 2, 6, p. 1-29; 163-190; 827-845. dl. 34, 1917, Afl. 4, 6, p. 481-504; 800-821.)

Tsingtau. Meteorological observatory.

Annual report for the year 1916. [Tsingtau. 1918.] 22 p. incl. tables. 32cm. In Japanese and English. [Contains results of meteorological observations for Tsingtau and Tsinanfu.]

Voss, Andreas.

Die neue Wettervorhersage. 30 $\frac{1}{2}$ cm. (Photographed from Mitteilungen der Deutschen dendrologischen Gesellschaft. 1915. p. 133-139.)

West Indies. Imperial department of agriculture.

Report on the agricultural department, Dominica, 1916-17. Barbados. 1917. 3 p.l., 60 p. plate. tables. charts. 33 $\frac{1}{2}$ cm. [Rainfall returns, Botanic station, Dominica, 1893-1916.]

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents or the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

- Forest investigators. Proceedings of meeting. Washington. February 26-March 2, [1917].*
 Mitchell, J. A. Temperatures—air and soil [in forestry]. p. 170-178.
 Sampson, A. W. Air and soil temperatures [in forestry]. p. 178-185.
 Munns, Edw[ard] N. Wind, humidity, and evaporation [in forestry]. p. 185-189.
 Kenety, W. H. Evaporation [in forestry]. p. 189-195.
 Pearson, G. A. Methods of measuring light [in forestry]. p. 196-203.
 Lamb, George N. Importance of phenological observations [in forestry]. p. 203-207.
 Justice, A. A. Precipitation, with special reference to snow measurements [in relation to forestry]. p. 207-218.
Geographical review. New York. v. 5. February, 1918.
 Coker, R. E. Ocean temperatures off the coast of Peru. p. 127-135.
 Chu, Co-Ching. Some Chinese contributions to meteorology. p. 136-139.
Meteorological society of Japan. Journal. Tokyo. 37th year. January, 1918.
 Oishi, W. Helpa tabele por redukti atmosferan premon al la marnivela valoro.
 Fujiwhara, S. Green flash at sunset. p. 7-8.
Popular astronomy. Northfield, Minn. v. 26. January, 1918.
 Pickering, William H. Report on Mars, No. 19. p. 33-47. [Proposes a meteorological explanation of the Martian canals.]
Royal Society of New South Wales. Journal and Proceedings. v. 50, pt. 1. 1916.
 Greig-Smith, R. Mr. Lawrence Hargrave. p. 3-5. [Obituary.] [Reprinted above, p. 27.]
Science. New York. v. 47. February 15, 1918.
 Salmon, S. C. A preliminary note on soil moisture and temperature factors in the winter killing of grain crops. p. 173-174.
 Lester, O. C. An unusually brilliant halo. p. 170-171. [See above, p. 22.]
Scientific American supplement. New York. v. 85. February 2, 1918.
 Arctowski, Henryk. The pleionian cycle of climatic fluctuations. A study equally as important as normal conditions. p. 66-67. [Repr. Amer. journal of science.]
Scientific monthly. New York. v. 6. February, 1918.
 Ward, Robert DeCourcey. Weather control over the fighting in the Italian war zone. p. 97-105.
 Palmer, Andrew H. Snow and its value to the farmer. p. 128-141.
Second Pan American scientific congress. Washington. Dec. 27, 1915-Jan. 8, 1916. Proceedings. volume 2. Wash., 1917.
 Sarasola, Simón. Investigaciones sobre la predicción de las variaciones barométricas. p. 36-41.
 Millas y Hernández, José Carlos. Génesis y marcha de los huracanes Antillanos. p. 42-55.
 Alexander, William H. Thunderstorms. p. 55-75.
 Smith, J. Warren. Agricultural meteorology. p. 75-92.
 Voorhees, J. F. Climatic control of cropping systems and farm operations. p. 127-132.
 Gutiérrez-Lanza, Mariano. El clima de Cuba. p. 132-172.
 Arctowski, Henryk. The pleionian cycle of climatic fluctuations. p. 172-179.
 Hobbs, William H. The Ferrel doctrine of polar calms and its disproof in recent observations. p. 179-189.
 Miller, Eric Rexford. The meteorological influences of lakes. p. 189-198.
 Von Herrmann, Charles F. The position of meteorology among the sciences. p. 199-204.
 Thiessen, Alfred H. The weather and the climate of Salt Lake City, Utah. p. 205-225.
 Morandi, Luis. Frecuencia, cantidad y modalidades de la lluvia y del granizo en villa Colón (Montevideo) en el período 1884-1914. p. 225-234.
 Bazzano, Hamlet. Río de la Plata—generalidades— influencias meteorológicas. p. 234-239.
 Wells, Edward Lansing. The economic aspect of climatology. p. 240-249.
 Frankenfield, H[enry] C. Sleet and ice storms in the United States. p. 249-257.
 Beals, Edward A. Forecasts of weather favorable to an increase of forest fires. p. 257-270.

- Second Pan American scientific congress*—Continued.
- Kullmer, C. J. Monthly storm frequency in the United States. p. 338-393.
- Ward, Robert DeC[ourcy]. The thunderstorms of the United States as climatic phenomena. p. 393-411.
- Huntington, Ellsworth. Solar activity, cyclonic storms, and climatic changes. p. 411-431.
- Cox, Henry J. Influence of the Great Lakes upon movement of high and low pressure areas. p. 432-459.
- Fassig, Oliver L. Tropical rains—their duration, frequency, and intensity. p. 460-473.
- Galán, Antonio. Fluctuaciones climatológicas en los tiempos históricos. p. 475-481.
- Cline, Isaac M. Temperature conditions at New Orleans, as influenced by subsurface drainage. p. 481-496.
- Church, J[ames] E., Jr. Snow surveying: its problems and their present phases with reference to Mount Rose, Nevada, and vicinity. p. 496-549.
- Kimball, Herbert H. Measurements of solar and sky radiation. p. 549-561.
- Barbato, Germán (hijo), & Esquerre, Pedro. Iniciación al estudio de la relación heliometeorológica. p. 561-570.
- Douglas, A. E. The Callendar sunshine recorder and some of the world-wide problems to which the instrument can be applied. p. 570-579.
- Swann, W. F. G. Atmospheric electric observations aboard the "Carnegie." p. 579-593.
- Reed, William Gardner. Frost in the United States. p. 593-631.
- Blair, William R. Some results of aerological observations. p. 632-641.
- Barberena, Santiago I. Informe de los servicios meteorológico y sismológico en el Salvador. p. 642-644.
- Montessus de Ballore, [Fernand] de. Organización de las observaciones macroseismológicas en América. p. 644-659.
- Frankenfield, H[enry] C. Fog forecasting in the United States. p. 659-670.
- Henry, Alfred J. The river service of the Weather Bureau. p. 671-675.
- Eminich, Eugene D. The principles involved in predicting high-water stages in flashy streams, with special reference to the scheme for the Savannah River at Augusta, Ga. p. 675-689.
- Humphreys, W[illiam] J[ackson]. Wind velocity and elevation. p. 689-696.
- Humphreys, W[illiam] J[ackson]. The collection of earthquake data in the United States. p. 697-704.
- Lurquin, Constant. Meteorología Boliviana. p. 704-715.
- Ugueto, Luis. Primeros pasos de Venezuela en el campo de la meteorología. Algunas consideraciones acerca de la altura media anual del barómetro al nivel del mar en Venezuela y acerca de la oscilación barométrica a diversas alturas. p. 715-722.
- Bazzano, Hamlet. Organización general de los servicios del Instituto meteorológico nacional. p. 723-726.
- Landa, Luis. Estado actual de la meteorología y sismología en Honduras. p. 727-730.
- Knoche, Walter. Resumen de la organización del servicio meteorológico [de Chile]. p. 730-735.
- Carbonell, Luis G. y. Ligeros apuntes de la forma en que se hallan establecidos los servicios que tiene a su cargo el Observatorio Nacional de la República de Cuba. p. 736-738.
- Clayton, H[enry] H[elm]. The Argentine weather service. p. 738-742.
- Lleras, Jorge Alvarez. Contribución a la meteorología Colombiana. p. 742-768.
- Marvin, Charles F. Organization of meteorology and seismology in the United States. p. 768-779.
- Morandi, Luis. Síntesis general de los resultados obtenidos desde su fundación y en sus distintas secciones y servicios en el Instituto nacional físico-climatológico del Uruguay. p. 779-824.
- Devereaux, W. C. Forecasts of river stages and floods in the Ohio Valley; their importance to commerce and in conserving life and property. p. 825-830.
- Tuffio, Luis G. Tesis sobre meteorología agrícola. p. 831-847.
- Symons's meteorological magazine. London. v. 42. December, 1917.
- Brodie, Fred[eric] J. Gunfire and rainfall. p. 121-126. [Author finds a remarkable excess of rainfall in eastern England during the European war. See comments on this paper in Nature, Jan. 10, 1918, p. 371.]
- Tokyo mathematico-physical society. Proceedings. Tokyo. v. 9. January, 1918.
- Nakamura, Sseimontarō. On the "Laufzeitkurve" for near earthquakes. p. 224-234.
- U. S. States relations service. Experiment station record. Washington. v. 37. November, 1917.
- Richards, E. H. Dissolved oxygen in rain water. p. 620-621. [Abstract from Jour. agr. sci.]
- Académie des sciences. Comptes rendus. Paris. Tome 165. 24 décembre 1917.
- Schaffers, V. Le son du canon à grande distance. p. 1057 1058.
- Dunoyer, L. & Reboul, G. Sur les variations diurnes du vent en altitude. p. 1068-1071.
- Académie des sciences. Comptes rendus. Paris. Tome 166. 21 janvier 1918.
- Reboul, G. Relation entre les variations barométriques et celles du vent au sol: application à la prévision. p. 124-126.
- Bureau international des poids et mesures. Travaux et mémoires. Paris. Tome 16. 1917.
- Leduc, A. La masse du litre d'air dans les conditions normales. p. 7-37. [Introductory note by Ch. Ed. Guillaume. p. 3-6.]
- Pontificia accademia Romana dei Nuovi Lincei. Roma. anno 70. 17 dicembre 1916.
- Negro, Carlo. Sulla frequenza degli aloni. p. 27-37.
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- RECENT PUBLICATIONS RELATING TO MILITARY METEOROLOGY.
- Compiled by Miss MARGARET M. WELCH, Weather Bureau Library. [Washington, D. C., Feb. 26, 1918.]
- The advent of military meteorology. (In Scientific American, N. Y. v. 107. Dec. 29, 1917. p. 490.)
- Afslalo, F. G. Weather and the war. (In Living age, Bost. v. 284. Jan. 23, 1915. p. 253-255.) [Reprinted from the Outlook, London.]
- Aslett, R. A. Wind dial corrections. (In Journal of the Royal artillery, Woolwich. v. 43. 1916-17. p. 388-389.)
- Baschnag, Otto. Der Krieg und das Wetter. (In Deutsche Rundschau, Berl. April und Mai, 1915. p. 78-91; 207-217.) Meteorologie und Kriegsführung. (In Naturwissenschaften, Berl. 3 Jahrg. 7 Mai, 1915. p. 242-246.)
- Benson, H. R. Correction of the height of burst of shrapnel. Abridged translation from "Memorial de artilleria." (In Journal of the Royal artillery, Woolwich. v. 42. Sept., 1915. p. 324-329.) "Effect of seasonal atmospheric temperature and pressure on rate of fuze burning."
- Bentley, R. Weather in war time. (In Quarterly journal of the Royal meteorological society, Lond. v. 33. April, 1907. p. 81-138.)
- Berger, J. V. Artillerie und Meteorologie. (In Meteorologische Zeitschrift, Braunschweig. Bd. 32. Mai, 1915. p. 233-235.)
- Brooks, C. F. Weather and the war. (In Science, N. Y. v. 43. June 30, 1916. p. 934-935.)
- Burgess, G. K. Applications of science to warfare in France. (In Scientific monthly, N. Y. v. 5. Oct., 1917. p. 289-297.) [Describes the work of the meteorologists attached to the Allied armies.]
- Campaigning in winter: climatic factors in the European struggle. (In Scientific American, N. Y. v. 111. Dec. 5, 1914. p. 461.)
- Campbell, R. N. Effects of upper air currents upon the accuracy of mortar fire. (In Journal of the U. S. Artillery, Fort Monroe, Va. v. 44. 1915. p. 359-365.)
- Delaforce, E. F. Weather-cocks. (In Journal of the Royal artillery, Woolwich. v. 43. April, 1916. p. 15-16.) [To obtain warning of a gas attack.]
- Dennis, W. L. Wind dial for 4.5 howitzer. (In Journal of the Royal artillery, Woolwich. v. 44. Sept. 1917. p. 193-194.)
- Down, C. D. Wind graph for use with howitzers. (In Journal of the Royal artillery, Woolwich. v. 44. Sept. 1917. p. 195.)
- The elements of bomb-dropping. (In Air service journal, N. Y. v. 1. Nov. 22, 1917. p. 629-630.) From Flying, Lond. [Describes effect of wind.]